

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



10/517041



(43) International Publication Date
18 December 2003 (18.12.2003)

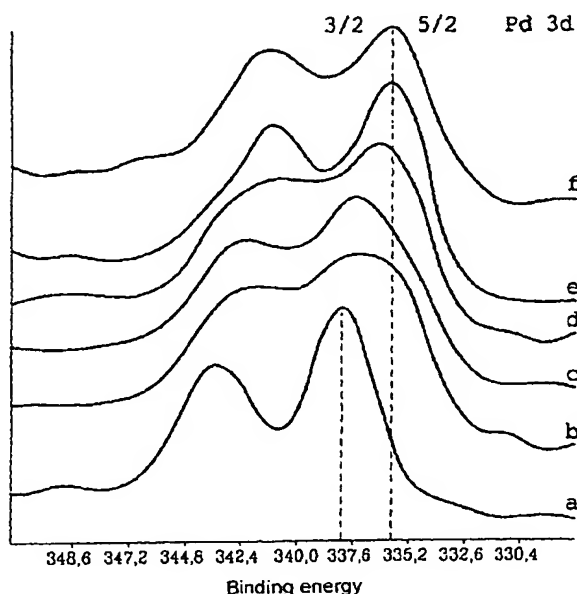
PCT

(10) International Publication Number
WO 03/105548 A1

- (51) International Patent Classification⁷: H05K 3/18, C23C 18/16
- (21) International Application Number: PCT/EP03/50218
- (22) International Filing Date: 6 June 2003 (06.06.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0206955 6 June 2002 (06.06.2002) FR
- (71) Applicant (for all designated States except US): FCI [FR/FR]; 53 RUE DE CHATEAUDUN, F-75009 PARIS (FR).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): FARES-KARAM, ANTOINE [FR/FR]; 11 AVENUE DU GENERAL LECLERC, F-72000 LE MANS (FR).
- (74) Agent: SCHMIT, Christian, Norbert, Marie; 8 PLACE DU PONCEAU, F-95000 CERGY (FR).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METALLISED PARTS MADE FROM PLASTIC MATERIAL



- a: PBT+plasma NH_3 + PdCl_2
 b: PBT+plasma NH_3 + PdCl_2 + H_2PO_2 : 3min
 c: PBT+plasma NH_3 + PdCl_2 + H_2PO_2 : 5min
 d: PBT+plasma NH_3 + PdCl_2 + H_2PO_2 : 10min
 e: PBT+plasma NH_3 + PdCl_2 + H_2PO_2 : 15min
 f: PBT+plasma NH_3 + PdCl_2 + H_2PO_2 : 30min

(57) Abstract: In order to metallise a support made from high temperature polymer, the melting temperature of which is higher than 180°C, it is shown that the stages of cleaning, plasma etching, grafting and then metallising in a metallisation bath can be applied. According to the invention, the metallisation bath is brought to a temperature between 50°C and 70°C, the plasma being a nitrogenous plasma.

WO 03/105548 A1